

Department of Environment and Natural Resources September 01, 2006 1600 hours

Divisions:

Air Quality (DAQ) Environmental Health (DEH) Marine Fisheries (DMF) Radiation Protection (RP) Water Resources (DWR) Aquariums(AQU) Forest Resources (DFR) Museum on Nat. Sciences (DMNS) Soil and Water Conservation (DSWC) Zoological Park (DZP) Coastal Management (DCM) Land Resources (DLR) Parks and Recreation (DPR) Waste Management (DWM) Customer Service Center (CSC) Legislative/Intergovernmental Affairs (LIA) Pollution Prevention (DPPEA) Water Quality (DWQ)

T.S. Ernesto:

Current Situation:

DWR: The recent rains from TS Ernesto have helped overcome the moderate drought in the Central portion of North Carolina. It will be several days before we know the extent of benefits brought by these rains.

DFR: A N.C. Division of Forest Resources Incident Management Team continues to work with the N.C. National Guard and N.C. Emergency Management at the Eastern Regional Coordination Center in Kinston.

The 15-person partial team is tracking costs, resources and requests associated with response and recovery needs brought on by Tropical Storm Ernesto. Currently, there have been three "mission requests" received at the center. All were for assistance to evacuate people from residences in flooded areas. Forest Service Districts in Eastern North Carolina have had no requests for chainsaw crews or to clear roads. Reports from counties in the affected area have been mostly related to minor flooding. The Forest Service person working in the finance section of the Central Branch Coordination Center has been demobilized. Other Forest Service personnel are assessing the damage in the counties.

DCM: All districts are reporting various levels of local flooding (mostly in northeastern NC), power outages and tree damage (mostly tree limbs). With the exception of some pier and bulkhead damage, there has been relatively little structural damage to report. Generally, not very much beach erosion has or is occurring.

DMF: We are fully manned and operational. No damage to state facilities or property reported.

DWM: Solid Waste Section - staff in the east are calling their facilities for a status report. Staff have not received any requests to activate temporary debris staging sites. Communication between field staff and supervisors will continue through the holiday weekend.

DWM: Hazardous Waste Section - No issues or problems that require response have been reported. The Compliance Branch's emergency response team is in place and available to respond.

DPR: Two state parks – Goose Creek and Medoc Mountain – remain closed although Medoc Mountain likely will reopen by Friday night. All other parks are open although the campground at Carolina Beach remains closed due to downed trees. Mainland facilities at Hammocks Beach State Park are open

however ferry service to Bear Island has been suspended until Saturday and the island is closed to visitors until Saturday. Twelve park units are assessing damage in terms of downed trees, blocked trails and high water; however no facility damage has been reported thus far. The division's Incident Command Team remains activated through Friday.

DSWC: Washington and Wilmington Regional Offices report widespread flooding and heavy rainfall amounts with bands of 10 - 12 inches through Jones and Greene Counties. There have been no reports of inundated or damaged lagoons, no overtopping and no waste discharges. There are, however, 47 facilities with elevated lagoon levels.

DLR: On Aug. 31, 2006, Emergency Management reported that a dam in Haywood County overtopped. Asheville Regional Office staff indicated that the dam was low hazard and non-jurisdictional.

Also on Aug. 31, two teams from Mooresville R.O. checked dams in Mecklenburg, Union, Rowan and Cabarrus Counties. Some had flow in the emergency spillways but no flood-related problems were observed.

On Sept. 1, 2006, a team from the Raleigh Central Office inspected a dam upstream of US Highway 70 in Wayne County. The dam appeared to have failed as the result of internal erosion of the earth fill. This team will inspect other dams in the area as time permits.

The Maxwell Millpond in Duplin County was found to be overtopping by inspectors from the Wilmington Regional Office. Water was flowing down SR 1554. NCDOT and Duplin County Emergency Management were contacted. The Wilmington team will remain on site until someone arrives to close the road.

A team from each of the following regional offices is inspecting high hazard potential dams today: Fayetteville, Raleigh, Washington and Wilmington. Doppler radar and rain gage data are being used with the dam safety database to target inspections.

The Raleigh team has reported that no damage from the rains has been observed and additional inspections will be performed this afternoon.

DWQ: Staff making phone calls and field inspections to assess damage. All offices are operational – some staff on vacation for Labor Day weekend. Adequate staff is available to contact facilities.

DEH: Environmental Health Services Section staff has contacted local health departments in the coastal counties to offer assistance and determine overall affect on food service establishments. A report as of 11:30 a.m. Sept. 1 is below.

• New Hanover: left message

• Onslow: left message

• Beaufort: One restaurant has minor flooding. No assistance needed at this time.

- Brunswick: Reports from the Environmental Health office this morning indicate that two food service establishments lost power for approximately two hours but are back in operation today. No food supplies were jeopardized. No reports of damage have been indicated.
- Carteret: left message
- Pitt: Some street flooding but no establishment flooding or power outages that they are aware of. No assistance needed.
- Craven: Southeast section of county still has power outages. Staff is visiting establishments this morning. No assistance needed at this time.
- Hyde: left messageJones: left messagePender: left message
- Pamlico: minor short-term power outages reported. No assistance needed at this time.
- Martin/Tyrrell/Washington: No flooding or power outages. No assistance needed.

The Public Water Supply Section staff has contacted public water systems in the affected counties to offer assistance and determine Ernesto's overall affect. The Fayetteville Regional Office and Wilmington Regional Office staff members have contacted all municipal systems and most other community systems in the affected areas of both regions. There are two small community water systems that reported power outages and pressure losses. One system had already issued a low pressure advisory and for the other, the staff is preparing a system pressure advisory to take to them this afternoon. There were a few systems that had brief power outages without pressure losses. Overall, the Fayetteville Region had some spotty power outages but no reported problems with their water systems. The Wilmington Region had spotty power outages and heavy flooding in areas. We have had no reports of flooded wells at this point, but our systems will continue monitoring their wells and will notify us if their status changes over the weekend.

Progress Energy representative informed the PWSS-RRO that the power outages were widespread. The power outages were caused by fallen trees and branches. Forty-four (44) public water systems were contacted in the Raleigh Region. The Washington PWSS Regional staff contacted water systems this morning. There are very few community systems that temporarily lost power, but none that lost service pressure. Line power has now been restored to those that reported interruptions. Several have emergency interconnections with other systems, while most of our larger systems have standby electrical generating equipment. In addition, we have had e-mail and telephone contact with Div. of Emergency Management's Eastern Branch.

At this time, no water systems in the Washington Region are under use restrictions. We will be available to respond to line breaks that may result from erosion caused by localized flooding, if requested by the water systems.

Shellfish Sanitation and Recreational Water Quality has closed all waters to shellfishing. Rainfall amounts range from 3.5 inches to 12 inches. Processing plants have been contacted and no problems with them. The SS&RWQ Wilmington office has no damage; Morehead City office has no apparent damage but did have a very strong mold odor this morning. The Nags Head office was struck by lighting last Wednesday but did not sustain any additional damage from the tropical storm. No equipment was damaged. Recreational Water Quality has issued a precautionary water quality swimming advisory for coastal counties impacted by Tropical Storm Ernesto. This advisory warns the public to avoid swimming in all sound-side swimming waters affected by by Ernesto, and also to avoid swimming on the

oceanfront from Corolla south to Cape Hatteras and from Shackleford Banks south to Sunset Beach, particularly in areas around ocean stormwater outfalls and inlets. Bacteriological testing on these waters will begin Sunday, Sept. 3, and parts of the advisory will be lifted for areas that test below the state and federal recreational water quality standards.

Onsite Wastewater Section regional staff is conducting business in counties as usual today, and remain on stand-by. As with past storms, the staff will offer assistance to any areas affected by the storm. The OSWW engineering section has begun making inquiries with coastal counties such as Carteret County to obtain early status reports on the condition of their large systems.

The Radiation Protection Section staff contacted Progress and Duke Nuclear reactor control rooms by phone on Aug. 29. There is no further action needed by Radiation Protection Section, as our licensees and the nuclear plants have not reported any adverse conditions. Radiation Protection Section is on normal 24/7 coverage for radiological incidents.

3. Departmental Operational Priorities:

Debris

DWM: Field staff continues to assess situation. Debris amounts under continued assessment.

State Property

DPR: Public Safety: park superintendents and rangers are assessing damage and potential threats from downed trees/limbs in all public access areas; threats are being removed when identified.

CAFOs (Contained Animal Feeding Operations)

DSWC: Division personnel will continue to contact livestock operators to evaluate lagoon levels.

DWQ – no breaches reported.

FRO-0 farms reported; have checked with integrators; only issue power loss at some facilities with backup generators operating normally at present.

RRO – staff inspecting 4 abandoned facilities today and calling integrators

WARO – 9 farms reported; 1 inspection; 3 farms between 12 and 19"; 3 farms less than 12";

WIRO – 10 farms reported; 2 inspections; 8 farms between 12 and 19"; 2 farms less than 12"

WWTPs (Waste Water Treatment Plants)

DWO

FRO – no problems reported

RRO -

Plants overwhelmed or otherwise shut down:

Henderson WWTP still having problems from wash out of solids on Wednesday, current high flows not helping.

Princeton WWTP, Johnston County- Generator is off.

Littleton WWTP, Halifax County – plant lost power at 11:15- all influent is bypassing. Plants only able to provide partial treatment:

Scotland Neck WWTP turned off aerators on oxidation ditches due to high plant flows.

Macclesfield, Edgecombe County, creek has flooded chlorine contact chamber- pumping effluent back to mud well.

Rocky Mount WWTP, Edgecombe County- everything's okay.

Tarboro WWTP, Edgecombe County – everything's okay.

Enfield WWTP, Halifax County-Okay.

Johnston County WWTP, operating okay.

WARO

Overwhelmed:

Mt. Olive overwhelmed at 7 AM; much better at 11:30 AM; expected to fully recover in 24 hrs.

Ocean Sands – bypass of sand filters due to I & I; 24 hrs. to repair

Lakeview Packing – freeboard at 21"

Ocean Hills – excessive flow; 24 hrs. to repair

WIRO -

Plants overwhelmed or otherwise shut down:

Carolina Shores - effluent pumps clogged backing up ww in plant, overflowing clarifiers and old contact chamber

Lake Waccamaw - called in tank truck to pump out lift station, overwhelmed by I & I Richlands - manhole at WWTP overflowing, attempting to chlorinate, plant surrounded by water, access by boat only

Problems resolved

Swansboro - overflow at filters, filters now back on line, working properly; repaired Leland - influent lift station overwhelmed; repaired

SSOs (Sanitary Sewer Overflow)

FRO

City of Dunn-Eastside Pump Station—10,000 gallons (all to waters)— Mingo Swamp(Spill has stopped)

City of Dunn—BR8 manhole—9600 gallons(all to waters)—Black River - 80 gpm is continuing.

Moore County Collection System SSO reported yesterday had stopped with a corrected amount of 2800 gallons total

RRO

Rocky Mount, Edgecombe County – One surcharging manhole - ongoing

Henderson, Vance County - One pump station (Sandy Creek) overflowing as of 08:42 am on 09/01/2006. 10 gallons per minute. Surcharged lines elsewhere in Town.

Warrenton, Warren County- has hauler pumping the F&M Pump Station, no spill.

Weldon, Halifax County- has SSOs- don't yet know how many.

Roanoke Rapids, Halifax County- 1 SSO-manhole upstream of lift station, ongoing

Princeville, Edgecombe County, has SSOs we don't know how many Spring Hope, Nash County, has 2 lift stations overwhelmed.

Woodland, Halifax County, 3 SSOs, lift stations can't keep up.

Jackson, Northampton County, no collection system problems.

Severn, Northampton County, no collection system problems. Whitakers, Edgecombe County, collection system okay.

WARO – 17 ongoing spills reported (spread sheet attached) – all expected to return to normal within 12 hrs.

WIRO – unknown SSOs; none reported

Public Water Supply

DEH: The systems that are on (or will be on) system pressure advisories are:

- Porters Neck Plantation in New Hanover County
- Lea's Waterfront MHP in Pender County
- *Note:* We had a 4-inch water line break in Onslow County which was not storm related. The Onslow County ONWASA system (04-67-035) had a 4-inch line wash-out in a creek that has about 50 customers out of water presently. Wilmington regional staff members have sent ONWASA staff an example boil water advisory system pressure issue to issue while repairs are being made. They haven't had a chance to check all well sites yet. No mention was made of any problems with Richlands or the White Street Industrial system overseen by ONWASA.
- Neuse River Village MHP in Wake County (Aqua) was impacted by this event. This system loss primary power and the pressure fail below 20 psi. The system will be operating on backup power until primary power returns. A boil water advisory is required for this system. Reid Campbell and Danny Lassiter were informed of to issue the boil water advisory.
- Ashley Hills in Wake County (Aqua) was impacted by this event. This system loss primary power and the pressure fail below 20 psi. The system will be operating on backup power until primary power returns. A boil water advisory is required for this system. Reid Campbell and Danny Lassiter were informed of to issue the boil water advisory.
- Rutledge Landing in Wake County (Carolina Water Services) was impacted by this event. This system loss primary power, but was able to maintain pressure. The system will be operating on backup power until primary power returns. Boil water advisory is not required for this system.
- Randsell Forest in Wake County (Carolina Water Services) was impacted by this event. This system loss primary power, but was able to maintain pressure. The system will be operating on backup power until primary power returns. Boil water advisory is not required for this system.
- Emerald Village in Wake County (Aqua) was impacted by this event. This system loss primary power, but was able to maintain pressure. Primary power has been restored to this system. Boil water advisory is not required for this system.
- Royal Acres in Wake County (Aqua) was impacted by this event. This system loss primary power, but was able to maintain pressure. Primary power has been restored to this system. Boil water advisory is not required for this system.

Divisional Operational Priorities:

DWR: The Division of Water Resources does not expect to perform any work related to TS Ernesto in support of Division priorities.

DFR: Chain Saw Response: Currently, no requests have been made for Chainsaw crews.

DMF: Continues to be available to provide law enforcement, search and rescue, evacuation or other support to state and local agencies, if requested by SERT. Will close and enforce polluted shellfish waters as recommended by DEH.

DWM: Solid Waste Section - Field staff remain on standby through the weekend. If debris staging or other solid waste issues arise staff are prepared to respond.

DPR: Assessing damage to all infrastructure and working to reopen all park facilities with the approach of Labor Day Weekend.

DSWC: Same as Departmental Operational Priorities

Operational Status:

DWR: Normal operation is in effect. TS Ernesto has not caused any problems to Division of Water Resources' operations. Our New Bern office did not suffer any damages.

DFR: D.F.R. Chainsaw crews will respond to requests if needed. An IMT remains in place working in Unified Command in Kinston. DFR personnel continue to work in the EOC providing assistance and guidance with Logistics and Plans.

DCM: As the weather begins to improve, most field reps are out and about today fine tuning their early assessments. Based on all the reports received, it does not appear that there is a need for staff to work this weekend.

DMF: Fully operational.

DWM: Fully operational.

DPR: Expect all parks and facilities to be open by late Friday, except access to Bear Island and ferry service, which should be restored by Saturday a.m. Park staffs will continue to assess damage from downed trees and remove any threats to public safety.

DEH: Normal operations; regional staff on stand-by to provide assistance to localities.

DSWC: Field personnel are coordinating with DWQ in Washington Regional Office to evaluate lagoon status by aerial surveillance on Saturday. Field personnel will also be developing Plans of Action for reducing lagoon levels for facilities in Jones County.

DLR: Division resources are adequate at this time but will be evaluated over the next few days. Land Resources will continue to monitor known problem dams and remain in emergency alert status over the weekend

DWQ: Situation expected to continue to improve.

6. Resource Assessment:

DWR: We have not assigned any resources to handle TS Ernesto problems nor do we anticipate needing any additional resources.

DFR: Currently, all D.F.R. resources are prepared to assist as needed. No additional resources are requested.

DMF: Requires no additional resources at this time.

DWM: No needs at this time.

DPR: All division resources are available including commissioned officers, boats, vehicles, etc.

DEH: None at this time.

DSWC: Division resources are adequate at this time but will be evaluated over the next few days.

DWQ: Currently have adequate resources to fulfill mission.

	2005 HURRICANE DAILY SUMMARY REPORT - WWTPs and SSOs									
NEW OR ONGOING INCIDENT	TOWN OR System	COUNTY	N.C PERMIT NUMBER	EST. AMT. SPILLED (GALLONS)	EST. AMT. TO WATERS (GALLONS)	EST. RATE OF SPILL (GPM)	WATERBODY AFFECTED	LOCATION AND CAUSE OF INCIDENT	ESTIMATED TIME TO REPAIR	
	Greenville Utilities	Pitt	WQCS00014	Ongoing-Unknown	Unknown	Unknown	Undetermined	Chestnut Street @ Skinner Street	12 Hours	
	Town of Ayden	Pitt	WQCS00269	Ongoing-Unknown	Unknown	Unknown	Undetermined	???	12 Hours	
	Town of Mount Olive	Wayne	WQCS00129	Ongoing-Unknown	Unknown	Unknown	Undetermined	Main pump station underwater.WWTP out of service.		
	Town of Mount Olive	Wayne	WQCS00129	Ongoing-Unknown	Unknown	Unknown	Undetermined	Bypass pumps set up- WWTP functioning 11:45am	12 Hours	
	City of Kinston	Lenoir	WQCS00022	Ongoing-Unknown	Unknown	30	Undetermined	200 block Mitchell 2 mh's overflowing	12 Hours	
	Town of Grifton	Pitt	WQCS00247	Ongoing-Unknown	Unknown	20	Undetermined	Manhole @ Lewis St. Pump Station	12 Hours	
	Town of Aulander	Bertie	WQCS00289	Ongoing-Unknown	Unknown	150	Undetermined	5 MH's on Commerce Street overflowing	12 Hours	
	Town of Winfall	Perquimans		Ongoing-Unknown	Unknown	5	Undetermined			
	Town of Edenton	Bertie	WQCS00272	Ongoing-Unknown	Unknown	75	Undetermined	3 manholes about system overflowing	12 Hours	
	Town of Bethel	Pitt	WQCS00151	Ongoing-Unknown	Unknown	120	Undetermined	6 Manholes on Crawford and Lincoln Streets	12 Hours	
	Town of Winterville	Pitt	WQCS00117	Ongoing-Unknown	100	100	Swift Creek	Manhole on Howard Street overflowing	12 Hours	
		Pitt	WQCS00117	100			Swift Creek	Glenda Drive Pump Station-repairs complete		
		Pitt	WQCS00080	Ongoing-Unknown	Unknown	170	Undetermined	Wetwell at Hwy 11 Pump station overflowing	12 Hours	
		Craven	WQCS00052	N/A	N/A	N/A	N/A	#47 Pump Station out of service 175 residences out of service. 620 NC55 West		
		Martin	WQCS00090	Ongoing - Unknown	Unknown	Unknown	Unknown	Thelma & E. Main Street Intersection	12 hours	
		Martin	WQCS00090	Ongoing - Unknown	Unknown	Unknown	Unknown	505 W. Boulevard	12 hours	
		Washington	WQCS00141	Ongoing - Unknown	Unknown	200 gpm	Roanoke River	Golf Road Lift Station/power loss	12 hours	
		Washington	WQCS00141	Ongoing - Unknown	Unknown	Unknown	Unknown	Washington Street	repaired	
		Wayne	WQCS00023	N/A	N/A	N/A				
		Beaufort	WQCS00175	Ongoing - Unknown	Unknown	25	Unknown	Manhole at East & Cutrell Street overflowing.	12 hours	
	Town of Chocowinity	Beaufort		N/A	N/A	N/A				
	City of Havelock	Craven	WQCS00104	N/A	N/A	N/A				
	City of Washington	Beaufort	WQCS00087	N/A	N/A	N/A				
	Town of La Grange	Lenoir	WQCS00148	N/A	N/A	N/A				
	Town of Pink Hill	Lenoir		N/A	N/A	N/A				
	Town of Snow Hill	Greene	WQCS00246	N/A	N/A	N/A				

DATE: 9-20-05

2005 HURRICANE DAILY SUMMARY REPORT - ANIMALS

NEW OR				LAGOON STRUCTURE	FDFFDOAF	WATERBODY AFFECTED	CAUSE	ESTIMATED TIME TO
INCIDENT	COUNTY	FACILITY#	FACILITY NAME	(breach, dike damage, water on wall, inundated)	FREEBOARD (INCHES)	(IF ANY)	OF INCIDENT	REPAIR
INCIDENT	COCINT	TAGILITY	TAGILITI NAME	water on wan, mundated)	(INCLIES)	(11 AN1)	OF INCIDENT	KEFAIK
None to report.								

WASHINGTON REGIONAL OFFICE	DATE: 9-20-05

2005 HURRICANE OPHELIA DAILY SUMMARY REPORT - HAZMAT

NEW OR				WATERBODY			EST.
ONGOING			RESPONSIBLE PARTY/	AFFECTED	DESCRIPTION OF INCIDENT/	DESCRIPTION OF	TIME TO
INCIDENT	TOWN	COUNTY	LOCATION	(IF ANY)	MATERIALS INVOLVED	REMEDIATION	REMED.
None to report							